

Please type a plus sign (+) inside this box →

Approved for use through 10/31/02. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

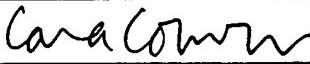
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. PATENT & TRADEMARK OFFICE PATENT TRANSMITTAL FORM		Application Number	10/017,880
		Filing Date	December 13, 2001
		First Named Inventor	Nurith KURN
		Group Art Unit	To Be Assigned
		Examiner Name	To Be Assigned
Total Number Of Pages In This Submission	12 + 93 Refs.	Attorney Docket No.	492692000300

ENCLOSURES (check all that apply)

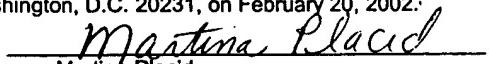
- | | | |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Assignment Papers
<i>(for an Application)</i> | <input type="checkbox"/> After Allowance Communication to Group |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment / Reply | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Group
<i>(Appeal Notice, Brief, Reply Brief)</i> |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declarations | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Power of Attorney, Revocation
Change of Correspondence Address | <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i>
Form PTO-1449 (4 pages in duplicate)
93 cited references
Return receipt postcard |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | |
| <input checked="" type="checkbox"/> Information Disclosure Statement (3 pages) | <input type="checkbox"/> Request for Refund | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| <input type="checkbox"/> Response to Missing Parts/
Incomplete Application | | |
| <input type="checkbox"/> Response to Missing Parts
under 37 CFR 1.52 or 1.53 | | |
- Remarks**

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Firm or Individual Name	Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 Cara M. Coburn, Reg. No. 46,631 for Catherine M. Polizzi, Reg. No. 40,130
Signature	
Date	February 20, 2002

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on February 20, 2002.



Martina Placid

Burden Hours Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PATENT
Docket No. 492692000300

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents, Washington, D.C. 20231, on February 20, 2002.

Martina Placid
Martina Placid

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In the application of:

Nurith KURN

Serial No.: 10/017,880

Filing Date: December 13, 2001

For: METHODS AND COMPOSITIONS FOR
GENERATION OF MULTIPLE COPIES
OF NUCLEIC ACID SEQUENCES AND
METHODS OF DETECTION THEREOF

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 AND § 1.98**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - A fee is required. A check in the amount of * is enclosed.
 - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 492692000300. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 20, 2002

Respectfully submitted,

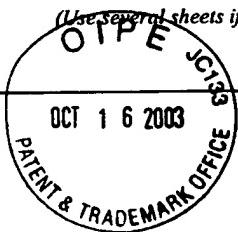
By: Cara Coburn
Cara M. Coburn
Registration No. 46,631

for

Catherine M. Polizzi
Registration No. 40,130

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5651
Facsimile: (650) 494-0792

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 492692000300	Application Number 10/017,880
		Applicant	Nurith KURN
		Filing Date December 13, 2001	Group Art Unit To Be Assigned
		Mailing Date February 20, 2002	



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/28/1976	3,999,345	McKelvey			
	2.	11/13/1979	4,174,384	Ullman et al.			
	3.	04/14/1981	4,261,968	Ullman et al.			
	4.	07/03/1984	4,458,066	Caruthers et al.			
	5.	04/15/1986	4,582,788	Erlich			
	6.	10/24/1989	4,876,187	Duck et al.			
	7.	02/26/1991	4,996,143	Heller et al.			
	8.	04/30/1991	5,011,769	Duck et al.			
	9.	12/08/1992	5,169,766	Schuster et al.			
	10.	12/29/1992	5,175,243	Ash			
	11.	02/09/1993	5,185,243	Ullman et al.			
	12.	09/23/1994	5,340,716	Ullman et al.			
	13.	03/21/1995	5,399,491	Kacian et al.			
	14.	04/04/1995	5,403,711	Walder et al.			
	15.	06/27/1995	5,427,929	Richards et al.			
	16.	06/27/1995	5,427,930	Birkenmeyer et al.			
	17.	01/02/1996	5,480,784	Kacian et al.			
	18.	02/13/1996	5,491,063	Fisher et al.			
	19.	04/23/1996	5,510,270	Fodor et al.			
	20.	09/10/1996	5,554,516	Kacian et al.			
	21.	09/10/1996	5,554,517	Davey et al.			
	22.	09/17/1996	5,556,752	Lockhart et al.			
	23.	10/15/1996	5,565,322	Heller			
	24.	11/26/1996	5,578,832	Trulson et al.			
	25.	07/15/1997	5,648,211	Fraiser et al.			
	26.	08/05/1997	5,654,142	Kievits et al.			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION OCT 16 2003 (Use several sheets if necessary)		Docket Number 492692000300	Application Number 10/017,880
		Applicant	Nurith KURN
		Filing Date December 13, 2001	Group Art Unit To Be Assigned
		Mailing Date February 20, 2002	

27.	08/26/1997	5,660,988	Duck et al.			
28.	10/21/1997	5,679,512	Laney et al.			
29.	10/21/1997	5,679,524	Nikiforov et al.			
30.	11/04/1997	5,683,879	Laney et al.			
31.	11/11/1997	5,686,272	Marshall et al.			
32.	11/18/1997	5,688,648	Mathies et al.			
33.	12/23/1997	5,700,642	Monforte et al.			
34.	01/20/1998	5,709,994	Pease et al.			
35.	01/20/1998	5,710,028	Eyal et al.			
36.	03/24/1998	5,731,146	Duck et al.			
37.	04/28/1998	5,744,312	Mamone et al.			
38.	06/09/1998	5,763,178	Chirikjian et al.			
39.	06/16/1998	5,766,846	Schlossmacher et al.			
40.	10/20/1998	5,824,517	Cleuziat et al.			
41.	10/20/1998	5,824,518	Kacian et al.			
42.	11/03/1998	5,830,655	Monforte et al.			
43.	12/29/1998	5,854,033	Lizardi			
44.	03/02/1999	5,876,976	Richards et al.			
45.	03/16/1999	5,882,867	Ullman et al.			
46.	03/30/1999	5,888,779	Kacian et al.			
47.	03/30/1999	5,888,819	Goelet et al.			
48.	07/20/1999	5,925,517	Tyagi et al.			
49.	12/21/1999	6,004,744	Goelet et al.			
50.	12/21/1999	6,004,745	Arnold, Jr. et al.			
51.	01/11/2000	6,013,431	Söderlund et al.			
52.	02/22/2000	6,027,889	Barany et al.			
53.	02/22/2000	6,027,923	Wallace			
54.	02/29/2000	6,030,774	Laney et al.			
55.	03/14/2000	6,037,152	Richards et al.			
56.	07/11/2000	6,087,103	Burner			
57.	08/22/2000	6,107,061	Johnson			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>OCT 16 2003 (use several sheets if necessary)</i>		Docket Number 492692000300	Application Number 10/017,880
		Applicant	Nurith KURN
		Filing Date December 13, 2001	Group Art Unit To Be Assigned
		Mailing Date February 20, 2002	

	58.	06/26/2001	6,251,639 B1	Kurn			
	59.	08/28/2001	6,280,935 B1	Macevicz			
	60.	10/23/2001	6,306,365 B1	Ruosahti et al.			
	61.	10/30/2001	6,309,843 B1	Timms			
	62.	11/13/2001	6,316,229 B1	Lizardi et al.			
	63.	12/04/2001	6,326,142 B1	Royer			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES	NO
	64.	04/21/1988	WO 88/02746 A1	WIPO			Abstract	
	65.	09/17/1992	WO 92/15712 A1	WIPO				
	66.	08/10/1995	WO 95/21271 A1	WIPO				
	67.	09/04/1997	WO 97/32040 A2	WIPO				
	68.	12/30/1998	WO 98/59066 A1	WIPO				
	69.	08/26/1999	WO 99/42618 A1	WIPO				
	70.	11/04/1999	WO 99/55912 A1	WIPO				
	71.	02/24/2000	WO 00/09745 A1	WIPO				
	72.	09/28/2000	WO 00/56925 A2	WIPO				
	73.	03/22/2001	WO 01/20035 A2,3	WIPO				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	74.	Agrawal S. and P.C. Zamecnik. (1990). "Site Specific Functionalization of Oligonucleotides for Attaching Two Different Reporter Groups," <i>Nucl. Acids. Res.</i> 18(18):5419-5423.
	75.	Beaucage S.L. and M.H. Caruthers. (1981). "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Lett.</i> 22(20):1859-1862.
	76.	Brown et al. (1979). "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene," <i>Meth. Enzymol.</i> 68:109-151.
	77.	DeRisi et al. (1996). "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," <i>Nature Genetics</i> 14:457-460.

EXAMINER:	DATE CONSIDERED:
-----------	------------------

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION OCT 16 2003 <i>(Use several sheets if necessary)</i>		Docket Number 492692000300	Application Number 10/017,880
		Applicant	Nurith KURN
		Filing Date December 13, 2001	Group Art Unit To Be Assigned
		Mailing Date February 20, 2002	

	78.	Fodor et al. (1991). "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> 251:767-773.	
	79.	Freier et al. (1986). "Improved Free-Energy Parameters for Predictions of RNA Duplex Stability," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 83:9373-9377.	
	80.	Goodchild J. (1990). "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of Their Synthesis and Properties," <i>Bioconjugate Chem.</i> 1(3):165-187.	
	81.	Lockhart et al. (1996). "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays," <i>Nature Biotechnology</i> 14:1675-1680.	
	82.	MacMillan A.M. and G.L. Veldine. (1990). "Synthesis of Functionally Tethered Oligodeoxynucleotides by the Convertible Nucleoside Approach," <i>J. Org. Chem.</i> 55:5931-5933.	
	83.	Makos U. and E.M. Southern. (1992). "Oligonucleotide Hybridisations on Glass Supports: A Novel Linker for Oligonucleotide Synthesis and Hybridisation Properties of Oligonucleotides Synthesised <i>in situ</i> ," <i>Nuc. Acids. Res.</i> 20(7):1679-1684.	
	84.	Narang et al. (1979). "Improved Phosphotriester Method for the Synthesis of Gene Fragments," <i>Meth. Enzymol.</i> 68:90-99.	
	85.	Pease et al. (1994). "Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:5022-5026.	
	86.	Pieles et al. (1989). "Preparation of a Novel Psoralen Containing Deoxyadenosine Building Block for the Facile Solid Phase Synthesis of Psoralen-Modified Oligonucleotides for a Sequence Specific Crosslink to a Given Target Sequence," <i>Nucl. Acids. Res.</i> 17(22):8967-8978.	
	87.	Roget et al. (1989). "Synthesis and Use of Labelled Nucleoside Phosphoramidite Building Blocks Bearing a Reporter Group: Biotinyl, Dinitrophenyl, Pyrenyl and Dansyl," <i>Nucl. Acids. Res.</i> 17:7643-7651.	
	88.	Schena et al. (1995a). "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> 270:467-470.	
	89.	Schena et al. (1995b). "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93:10614-10619.	
	90.	Shalon et al. (1996). "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," <i>Genome Res.</i> 6:639-645.	
	91.	Tesler et al. (1989). "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels by Thermodynamic and Optical Spectroscopic Measurements," <i>J. Am. Chem. Soc.</i> 111:6966-6976.	
	92.	Tinoco et al. (1973). "Improved Estimation of Secondary Structure in Ribonucleic Acids," <i>Nature New Bio.</i> 246:40-41	
	93.	Wu D.Y. and R.B. Wallace. (1989). "The Ligation Amplification Reaction (LAR)-Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569.	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.